



7th Joint Action Meeting

July 22-26, 2017

London, United Kingdom

Organized by:

Arianna Curioni, Patrick Healey, Rosella Galindo-Esparza, Andrea Jenei,
Günther Knoblich, Eszter Salamon, Natalie Sebanz, and Lida Theodorou

Central European University, Budapest, Hungary
Queen Mary University of London, United Kingdom

Program

Saturday, July 22 nd	
9:00 - 10:00	Registration
10:00 - 10:15	Welcome
10:30 - 12:30	Talk session A: Music and improvisation
12:30 - 14:00	Lunch break
14:00 - 16:00	Talk session B: Coordination 1
16:00 - 16:30	Coffee break
16:30 - 18:30	Talk session C: Dialogue and conversation 1
19:00 - 20:00	Reception

Sunday, July 23 rd	
9:00 - 11:00	Talk session D: Shared attention 1
11:00 - 11:30	Coffee break
11:30 - 13:00	Talk session E: Synchrony
13:00 - 14:00	Lunch break
14:00 - 16:00	Poster session 1 + coffee
16:00 - 18:00	Talk session F: Joint planning

Monday, July 24th	
9:00 - 10:30	Talk session G: Cooperation
10:30 - 11:00	Coffee Break
11:00 - 13:00	Talk session H: Goals and intentions
13:00 - 14:00	Lunch break + impro workshop
14:00 - 16:00	Poster session 2 + coffee
16:00 - 18:00	Talk session I: Coordination 2

Tuesday, July 25th	
9:00 - 10:30	Talk session J: Joint action: development and disorders
10:30 - 11:00	Coffee break
11:00 - 13:00	Talk session K: Shared attention 2
13:00 - 14:00	Lunch Break
14:00 - 16:00	Poster session 3 + coffee
16:00 - 18:00	Talk session L: Dialogue and conversation 2
18:00 - 18:20	Appetizer for ROBOT JAM
19:30 -	JAM dinner + party

Wednesday, July 26th	
10:30 - 12:30	Robot JAM session 1
12:30 - 14:00	Lunch break
14:00 - 15:30	Robot JAM session 2
12:30 - 14:00	Coffee break
16:00 - 17:30	Robot JAM session 3: Discussion and wrap-up
17:30 - 18:00	Final remarks

Talk sessions

Talk session A: Music and improvisation

Sat, 10:30 - 12:30

Peter Keller, Giacomo Novembre, and Jennifer MacRitchie
Self-other integration and segregation is modulated by the congruency of shared goals in musical joint action

Ian D. Colley, Jennifer MacRitchie, Manuel Varlet¹, and Peter Keller
Visual cues in musical synchronization: How can the conductor influence musicians?

Johann Issartel and Ludovic Marin
Joint-improvisation and Expertise

Saul Albert and Dirk vom Lehn
Beginning to dance: methods of mutual coordination between novice dancers

Tommi Himberg, Klaus Förger and Asaf Bachrach
Four-way mirror game: developing methods to study group coordination

Talk session B: Coordination 1

Sat, 14:00 - 16:00

Arianna Curioni, Cordula Vesper, Guenther Knoblich, and Natalie Sebanz
Kinematic signatures of joint action learning in reciprocal and non-reciprocal interactions

Gabriel Baud-Bovy and Fabio Tatti
Coordinated physical interaction and response strategies in a dyadic force detection task

Laura Schmitz, Cordula Vesper, Natalie Sebanz, and Günther Knoblich
How do we represent others' action sequences?

Etienne Burdet
Physically interacting individuals estimate the partner's goal to enhance their movements

Antonia Hamilton, Jamie A. Ward, and Jo Hale
Interpersonal coordination in natural conversations

Talk session C: Dialogue and conversation 1

Sat, 16:30 - 18:30

Anna K. Kuhlen and Rasha Abdel Rahman

Speaking together versus speaking alone: Cumulative semantic interference in joint task settings

Sophie Skach, Patrick G. T. Healey, and Rebecca Stewart

On the Edge of Our Seat. Sensing Conversational Engagement from Pressure on Chair Seat Covers.

Lucia Castillo, Holly Branigan, and Kenny Smith

It takes two to adapt: Interacting pairs' language (but not individuals') adapts to changing conditions in maze game

Leonardo Lancia, Thierry Chaminade, Noël Nguyen, and Laurent Prévot

Prediction versus coupling: testing two different accounts of inter-speaker coordination

Gregory Mills

The emergence of procedural coordination in joint activities: No evidence is better than negative evidence

Talk session D: Shared attention 1

Sun, 9:00 - 11:00

Margarita Blazeveca, Igor Schindler, Geoff G. Cole, Kevin Riggs, Antonia D'Souza, and Paul A. Skarratt

Does the perceived reliability of co-actors influence joint action performance?

Cathal O'Madagain and Michael Tomasello

Joint Attention to Mental Content and the Social Origin of Reasoning

Xun He and Juan Camilo Avendaño Diaz

A dual-EEG study of shared attention effect in dyads: Sensory processing or top-down control?

Francesca Capozzi and Jelena Ristic

Social attention depends on dynamic interactions between perceptions, mental states, and personal relevance

Axel Seemann

Joint Action, Social Space, and Visual Perspective-Taking

Talk session E: Synchrony

Sun, 11:30 - 13:00

R. C. Schmidt

Synchronization Dynamics Underlie Coordination in Natural Joint Actions

Lea Chauvigne, Ashley Walton, Michael J. Richardson, and Steven Brown

Group synchrony and multi-sensory integration in Greek folk dancing

Harjo J. de Poel

Natural asymmetry of between-agent interaction: anisotropic, repulsive and competitive coupling

Laurissa Tokarchuk

Walking in Sync and Sensing groups

Talk session F: Joint planning

Sun, 16:00 - 18:00

Timothy Welsh, Robrecht van der Wel, Anne Böckler

"I've got my eye on you": Faces with sudden direct gaze are processed more efficiently than faces with averted gaze

Merryn D. Constable

How the concept of ownership influences human interaction with objects and other people

Dimitrios Kourtis, Günther Knoblich, and Natalie Sebanz

Action representations at the dyad level during joint action planning: Evidence from EEG

Basil Wahn, Alan Kingstone, and Peter König

Two trackers are better than one: Information about the co-actor's actions and performance scores contribute to the collective benefit in a joint visuospatial task

Robrecht van der Wel

Experiencing joint action: Do "we" exist and when?

Talk session G: Cooperation

Mon, 9:00 - 10:30

Bert Hodges

How humans became caring, cooperative, and conversing, but not conforming: Evolutionary and ecological perspectives

Anika Fiebich

Three Dimensions of Cooperation

Corrado Sinigaglia and Steve Butterfill

How Motor Representation Grounds Cooperation

Talk session H: Goals and intentions

Mon, 11:00 - 13:00

Andrea Cavallo, Atesh Koul, Marco Soriano, and Cristina Becchio

The kinematics you do not expect: How prior expectations and kinematics integrate for intention detection

Angelica Kaufmann

Unobservable Goals: Intention ascription and its neural correlates

Atesh Koul, Andrea Cavallo, Franco Cauda, Tommaso Costa, and Cristina Becchio

Mirror neuron regions encode intention-related information conveyed by movement kinematics

Olle Blomberg

Joint intentional action and acting as if part of one large agent

Lise Hobeika, Marine Taffou, and Isabelle Viaud-Delmon

Impact of a shared goal on the perception of the space around the body

Talk session I: Coordination 2

Mon, 16:00 - 18:00

Lucia Maria Sacheli, Elisa Arcangeli, and Eraldo Paulesu
Two agents, one melody: dual-person motor plans and interpersonal coordination in joint action

Vanessa Era, Marco Gandolfo, Lucia Maria Sacheli, and Matteo Candidi
Left anterior Intra-Parietal Sulcus causally scaffolds complementary joint-actions in freely interacting human-human pairs

Giacomo Novembre, Günther Knoblich, Laura Dunne, and Peter E. Keller
Interpersonal synchrony enhanced through 20 Hz phase-coupled dual brain stimulation

L.S. Cuijpers and H.J. de Poel
Mechanically coupled interpersonal coordination in crew rowing

Daniel C. Richardson and Jorina von Zimmermann
The dynamics of collective behaviour: opinions, judgements and jazz

Talk session J: Joint action: development and disorders

Tue, 9:00 - 10:30

Xinyi Jin, Pengchao Li, Jie He, and Mowei Shen
Acting Interdependently Helps Young Children with Reasoning about Diverse Desires

Paula Fitzpatrick, Andrew Lampi, Shannon Campbell, Veronica Romero, Joseph Amaral, Michael J. Richardson, and R. C. Schmidt
The Influence of Social and Motor Context on Communication and Restricted and Repetitive Behaviors in Autism

Rose McCabe, Mary Lavelle, and Patrick G. T. Healey
Participation in first social encounters and social networks in schizophrenia

Christine Howes, Mary Lavelle, Patrick G. T. Healey, and Julian Hough
Do patients with schizophrenia do dialogue differently?

Talk session K: Shared attention 2

Tue, 11:00 - 13:00

Patrick G.T. Healey and Nicola J. Plant

Embodiment as a Resource for Inter-subjectivity

Tobias Schlicht

On individualism and interactionism in social cognition

Judith Martens

Heuristics, bounded rationality, and joint action

Bill Wringe

Joint Expressive Action: A Philosophical Analysis

Kristian Tylén, Riccardo Fusaroli, Pernille Smith, and Jakob Arnoldi

Interaction, cognitive diversity and abstraction

Talk session L: Dialogue and conversation 2

Tue, 16:00 - 18:00

Chiara Gambi, Joris Van de Cavey, and Martin Pickering

Joint Interference in picture description: Evidence for linguistically-detailed simulation of others' utterances, but only when speaking concurrently

Simon Dobnik and Christine Howes

Towards a computational model of frame of reference alignment in dialogue

Judith Holler and Stephen Levinson

Coordination in face-to-face conversation

Appetizer for ROBOT JAM

Tue, 18:00 - 18:20

Guy Hoffman

Measuring Fluency in Human-Robot Joint Activities

ROBOT JAM session 1

Wed, 10:30 - 12:30

Patrick Nalepka, Maurice Lamb, Rachel Kallen, Kevin Shockley, Anthony Chemero, Elliot Saltzman, and M. J. Richardson
Transforming simple pursuit to rhythmic rocking: Recent developments in emergent coordination using the virtual shepherding task for the development of adaptive human-robot systems

Auriel Washburn, Rachel W. Kallen, Maurice Lamb, Nigel Stepp, Kevin Shockley, and Michael J. Richardson
Self-Referential Delays Facilitate Anticipatory Synchronization During Artificial Agent-Human Interaction

Tariq Iqbal and Laurel D. Riek
Can robots synchronize with humans in tempo changing environments?

Marin, L., Madiou, E., Ansermin, E., Beausse, N., Salesse, R.N., Gaussier, P., Bardy, B.G., and Mostafaoui, G.
Can a human be unintentionally synchronized with a robot?

Ansermin, E., Mostafaoui, G., Beausse, N., and Gaussier P.
Using unintentional entrainment effect for modelling synchronous interpersonal motor coordination in a context of Human Robot Interaction

ROBOT JAM session 2

Wed, 14:00 - 15:30

Maurice Lamb, Riley Mayr, Tamara Lorenz, Rachel Kallen, Ali Minai,
Michael Richardson

*Joint Action with Non-Human Co-actors: Applying Human Joint
Action Principles to Robotic and Virtual Co-actors in a Cooperative
Pick-and-Place Task*

Sandra Devin, Aurélie Clodic and Rachid Alami

Building and Managing Shared Plans for Human-Robot Joint Action

Tobias Fischer and Yiannis Demiris

*Perspective mechanisms for facilitating joint actions in human-
robot collaborations*

Angelique Taylor and Laurel D. Riek

Robot Perception of Social Engagement Using Group Joint Action

ROBOT JAM session 3

Wed, 16:00 - 17:30

Group discussion and wrap up

Moderators: Tamara Lorenz, Aurelie Clodic, Micheal J. Richardson,
Laurel Riek

Poster sessions

Poster session 1

Sun, 14:00 - 16:00

Jamie S. Allsop, Dannette Marie, and Lynden K. Miles

Exploring the effects of interdependence on group effectiveness

Ruth E. Corps, Chiara Gambi, & Martin J. Pickering

Do listeners use speech rate predictions to time responses during conversation?

Artur Czeszumski, Chiara Carrera, Basil Wahn, and Peter König

Compete or cooperate: Is feedback processing affected by the social situation?

Jill A. Dosso, Trish L. Varao-Sousa, and Alan Kingstone

Is there a Joint Simon Effect in word recall?

Vanessa Era, Carolina Mancusi, and Matteo Candidi

Distinct contribution of right TPJ and left aIPS to imitative and complementary human-avatar motor interactions

Vicente Estrada-González

Does it improve cognitive abilities exposure to complex visual art?

Felix J. Goetz, Anita Körner, and Cordula Vesper

Producing music vs. pressing keys together - representing joint action goals

April Karlinsky, Keith R. Lohse, and Melanie Y. Lam

A meta-analysis of the joint Simon effect

Christopher J Luke, Iva Barisic, and Bert Timmermans

The influence of dyadic eye gaze dynamics on objective size judgments and in a subjective preference task

Jonathan Mendl, Kerstin Fröber, Gesine Dreisbach, and Thomas Dolk
Do you keep an eye on me? The influence of competition and cooperation on joint Simon task performance

Ashley Micklos
Interactive repair in emerging silent gesture communication: Aligning representations

Markus Franziskus Müller
How to orchestrate a soccer team - Generalized synchronization promoted by rhythmic acoustic stimuli

Giacomo Novembre, Manuel Varlet, Shujau Muawiyath, Catherine J. Stevens, and Peter E. Keller
The E-Music Box: an empirical method for exploring the universal capacity for musical production and for social interaction through music

Paola Olguín, Julieta Ramos, and Markus Müller
Rhythms, collectivity and interpersonal synchronization of brain dynamics

Jessica Podda, Caterina Ansuini, Roberta Vastano, Andrea Cavallo, and Cristina Becchio
The heaviness of invisible objects: predictive weight judgements from observed real and pantomimed grasps

Vassilis Sevdalis, Jennifer Mayer, Kathy P. Filer, Peter E. Keller, and Pamela Heaton
Perception of expressive body movements by individuals with autism spectrum disorder

Mircea Stoica, Alexander Maye, and Andreas K. Engel
Similarity of behavior in task space promotes collaboration and joint performance

James Strachan

Investigating the effect of joint speech on discrimination of truth

Anna Strasser

Most minimal cases of commitments in joint actions

Székely, M., Sebanz, N., Knoblich, G., Letesson, C., Butterfill, S. and Michael, J.

Investing in Commitment: Evidence that the efforts invested by individual contributors to joint actions enhance their partners' commitment

Georgina Török, Natalie Sebanz, Barbara Pomiechowska, and Gergely Csibra

Efficiency in joint action: Do we make rational decisions when coordinating with others?

Chia-huei Tseng and Cheng Meow

Self-bias in a joint task with a partner

Cordula Vesper, Tiffany Morisseau, Günther Knoblich, and Dan Sperber
Co-actors Use Ostensive Communication to Distinguish Object Categories

Basil Wahn, Artur Czeszumski, and Peter König

Skill differences predict collective benefits in dyadic and triadic joint visual search

Jamie A. Ward, Gerald Pirkel, Peter Hevesi, and Paul Lukowicz

Activity Recognition in Groups Using Wearable Sensing

Juan Camilo Avendaño Diaz and Xun He

Sustained visual attention in dyads: examining the role of group membership through a minimal group manipulation

Sonia Betti, Umberto Castiello, Silvia Guerra, Umberto Granziol and Luisa Sartori

The role of gaze in social requests

Nicole Bolt and Janeen Loehr

Joint action outcomes influence the sense of joint agency

Coste A., Słowiński, P., Tsaneva-Atanasova, K., Bardy, B.G., and Marin, L.

From individual to social postural signatures

Dubey, I., and Hamilton, A.

Priming Influences Social Seeking Tendencies Differently for with Higher Autistic Traits

Farmer, H., Tong, H. & Hamilton, A.F. de C.

The effect of congruency in automatic imitation on social approach and avoidance

Silvia Guerra, Andrea Spoto, Elisa Straulino and Umberto Castiello

Numbness Illusion in Autism: Implications for Social Interactions

Kelly Jakubowski, Tuomas Eerola, Nikki Moran, and Martin Clayton

Validating computational methods for measuring joint action in music performance from video

April Karlinsky and Nicola J. Hodges

Dyad practice impacts self-directed practice behaviours and motor learning outcomes in a contextual interference paradigm

Sujatha Krishnan-Barman and Antonia Hamilton

The effect of being watched on overimitation of actions in adult dyads

Kaitlin E. W. Laidlaw, Erin Walton-Ball, Jody C. Culham, and Melvyn A. Goodale

Signalling intentions: The influences of partner response accuracy on social action behaviours

Melanie Y Lam, Jarrod Blinch, Elizabeth M Connors, Jon B Doan, and Claudia LR Gonzalez

Bimanual joint action: correlated timing of “bimanual” movements accomplished by two people

Mary Lavelle, Chris Howes, Patrick G.T. Healey, Julian Hough, and Rose McCabe

The challenge of challenging others: Patterns of communication in interprofessional clinical teams

Manja Luft, Adrian Bangerter, and Lucas Bietti

Coordinating handshakes: An eyetracking study

Madiou, E., Mostafaoui, G., Salesse, R.N., Ansermin, E., Beausse, N., Gaussier, P., Bardy, B.G., and Marin, L.

Frequency properties allowing human-robot unintentional motor synchronization

Antonieta Martínez Guerrero, Mathieu Le Corre, Zeidy Muñoz-Torres, and Markus Müller

Tempo and Attention: Stroop Effect Modulation by Auditory Stimulus

Luke McEllin, Gunther Knoblich, and Natalie Sebanz

Discriminating between coordination and teaching intentions using action kinematics

Moreau Q., Pavone EF. Boukarras S., Tieri G., and Candidi M.

Neural correlates of a joint action in a human-avatar paradigm

Patric C. Nordbeck, Dakotah B. Tyler, Rachel W. Kallen, Anthony P. Chemero, and Michael J. Richardson
Phase Transitions Between Co-Present Single and Joint Action Modes

Anita Paas, Giacomo Novembre, Claudia Lappe, Catherine J. Stevens, and Peter E. Keller
The Effect of Agency Ambiguity on Error-Related ERP Components in Musical Ensemble Performance

Melvyn Roerdink, Niek van Ulzen, and Harjo de Poel
When two become one: interpersonal pattern formation in side-by-side and hand-in-hand walking

Simily Sabu, Arianna Curioni, Cordula Vesper, Natalie Sebanz, and Günther Knoblich
Role of Motor Variability in Joint Action Learning

Kayalveli Sivakanthan and Jacques Launay
Social relationships influence high intensity physical activity for university students

Marco Soriano, Andrea Cavallo, and Cristina Becchio
Matching action observation to action execution

Aafke van Mourik Broekman, Namkje Koudenburg, Ernestine H. Gordijn, Kirsten L.S. Krans, and Tom Postmes
The Impact of Art: Exploring the Social-Psychological Pathways That Connect Audiences to Live Performances

Auriel Washburn and Takako Fujioka
Coordinated Timing in Piano Duet Performance: Effects of Musical Role Asymmetries and Auditory-Feedback Delays

Ed Baggs

What roundabouts can teach us about joint action

Divya Bhatia, Pietro Spataro, and Clelia Rossi-Arnaud

Movement Representation and its interaction with Memory

Hiu-ming Chan and Chia-huei Tseng

Perceptual sensitivity of yawning and contagious yawning

Ciaunica, A., Schilbach L., and Derooy O.

Compensatory Strategies in Online Social Interactions: Contrasting the Case of Autism with the Möbius Syndrome

L. Cohen, M. Khoramshahi, R.N. Salesse, C. Bortolon, P. Slowinski, C. Zhai, K. Tsaneva-Atanasova, M. Di Bernardo, D. Capdevielle, L. Marin, R. C. Schmidt, B. G. Bardy, A. Billard, and S. Raffard

Effects of Facial Emotions on Social-motor Coordination in Schizophrenia

Antonia D. C. D'Souza, Paul A. Skarratt, Margarita Blazeveica, and Geoff G. Cole

Sex differences in social inhibition of return

Tehran J. Davis, Ashley Dhaim, and Gabriela Baraknowski-Pinto

Individual task demands influence the organization of joint action: a look across scales

Lize De Coster

Team performance is predicted by synchrony and self-other distinction

Hannah M. Douglas, Stacie Furst-Holloway, Michael J. Richardson, and Rachel W. Kallen

Complexity matching of postural activity during the disclosure of a concealable stigmatized identity

Georgescu, A.L., Hamilton, A., Falter, C.M., Tschacher, W., and Vogeley, K.

Evaluating Interpersonal Synchrony in Naturalistic Dyadic conversations Using Motion Energy Analysis: Lessons from Autism Spectrum Conditions and Typical Development

Janeen Loehr, Sarah Ardell, and Dimitrios Kourtis

Degree of responsibility influences outcome evaluation in joint action

Maurici A. López-Felip, Tehran J. Davis, and Till D. Frank

Dynamics of Collective Behavior in Sport

R. Lowe, P. Gander, A. Almér, G. Lindblad, C. Vesper, and J. Michael

Studying the Effects of Affective Memory in Joint Activity

Lilla Magyari, Natalie Sebanz

Seeing Togetherness in Motion: Perceptual Cues to Interpersonal Coordination in Joint Dance Improvisations

Michael, J., Letesson, C., Wozniak, M., Székely, and M., Butterfill, S.

The Chains of Habit: Evidence that repetition of a joint action enhances the sense of commitment

Peta Mills, Christopher Stanton, Trevor Mcpherson, and Peter Keller

The Role of Social Engagement during Interpersonal Coordination: Sensorimotor Synchronisation with an Adaptive Rhythmic Robot

Orit Nafcha, Simone Shamay-Tsoory, Shai Gabay

Investigating the influence of Social context on the Social Inhibition of Return

Henry Powell

A Social Bernstein's Problem

Davide Quarona, Caterina Ansuini, Luca Pascolini, Atesh Koul, Andrea Cavallo, Cristina Becchio

A kind of magic: the influence of motor expertise on pantomime discrimination

Eleonora Satta, Simone Ferrari-Toniolo, Alexandra Battaglia-Mayer

Development of motor coordination skills during joint action in mid-childhood

Jacob Taylor and Emma Cohen

Feeling the "click" of successful joint-action predicts social bonding among professional Chinese rugby players during a two-day National Tournament

Cordula Vesper, Terry Eskenazi, Janeen Loehr, and Floris de Lange

Observing Interpersonal Synchrony: An fMRI Study

Thomas Wolf, Natalie Sebanz, Günther Knoblich

Adaptation rates of musicians to phase-shifted inter-limb coordination in individuals and pairs

Leshao Zhang

Does mimicry make someone's argument more persuasive?